

Land use for the conversion of energy from renewable sources into electrical energy is increasingly competing with cultural landscapes and natural areas.

That's the promise of a wave of projects that aims to expand solar power without taking useful land out of commission. Symbiotic solar installations on farmland, lakes, and parking lots could ...

We develop a consistent, replicable framework to quantify land-solar interactions and apply it to annotated aerial imagery covering 719 solar photovoltaic projects (13,272 megawatts of...

While contributing to renewable energy generation, photovoltaic power plants (PVPPs) simultaneously affect various ecological factors, including microclimate regulation, land use patterns, ...

Solar development is not just an energy story; it's a land story. Recognizing the true footprint is the first step toward solutions that accelerate the clean energy buildout we need while ...

Here we provide a global inventory of commercial-, industrial- and utility-scale PV installations (that is, PV generating stations in excess of 10 kilowatts nameplate capacity) by using a...

The rapid increase in construction of solar photovoltaic power stations (SPPs) has motivated ecologists to understand how these stations affect terrestrial ecosystems.

However, installing solar energy systems on land that has marginal agricultural value or integrating solar energy systems on farms may provide a variety of economic and environmental benefits to farmers. ...

In this study, we conducted a meta-analysis to investigate the soil, climate, and biological effects of PVPPs construction, as well as changes in ecosystem CO₂ fluxes. Our analysis ...

We conducted a meta-analysis to assess the patterns of ecosystem functions in response to land-based solar power development across various terrestrial ecosystems.

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